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FUB-NO: JP360093325A

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TITLE: TEMPERATURE DETECTING APPARATUS

PUBN-DATE: May 25, 1985

INVENTOR-INFORMATION:

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ASSIGNEE-INFORMATION:

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MITSUBISHI HEAVY IND LTD

APPL-NO: JP58200510

APPL-DATE: October 26, 1983

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ABSTRACT:

PURPOSE: To prevent a sensitivity variation even if a gap between a conductor to be measured is varied and a detecting coil by controlling an AC source frequency so that a supplied AC voltage of a temp. inspecting bridge circuit becomes the same phase as a bridge output voltage in an eddy current temp. detecting apparatus.

CONSTITUTION: If the temp. of the measuring conductor 1 is varied, the eddy current is varied according to this, and an impedance of the detecting coil 2 of the bridge circuit 3 to which a voltage is supplied from an AC source 8 is varied. A phase difference between the output voltage corresponding to a temp. of the circuit 3 corresponding to the impedance variation and the AC voltage through a phase shifter 6 is detected by a phase meter 9, and the frequency of the source 8 is controlled so that the phase difference becomes zero. By the detection based on the relation between the impedance variation independent of the gap between the conductor 1 and coil 2 and a supplied voltage frequency variation, the sensitivity is not varied even if the gap between the measuring conductor and the detecting coil is varied, and the temp. can be detected by eddy current method.

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